CEC TURNTABLE

Service Manual

DIRECT DRIVE AUTOMATIC TURNTABLE

DD-8200





CEC International Inc.

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Model	Destination
Α	USA (UL Approval)
C	Canada (CSA Approval)
E	Europe (Scandinavian Approval)
G	General territories

TECHNICAL SPECIFICATIONS

Description	Condition Nominal		Limit	
Туре		Direct drive, front operation auto-return		
Platter		system Aluminum alloy die-cast, 31 cm		
riatter		featuring stroboscopic calibrated spots		
	·	with neon lamp		
Motor		20-pole, 30-slot DC servo direct drive		
		motor		
Speed Speed calibration		2-speeds: 33-1/3 rpm, 45 rpm	10.000	
S/N ratio	DIN 45539A	±3% 48 dB	±2.8% 45 dB	
S/IV Tatio	DIN 45539A DIN 45539B	70 dB	68 dB	
Wow & Flutter	Measured at 3 kHz signal	0.03% WRMS	0.038% WRMS	
·	DIN 45507	0.05% WHWS	0.06%	
Tone arm	2,111 10007	0.0074	0.00%	
Headshell	-	Plug-in type		
Overall length		300 mm		
Effective length		215 mm		
Overhang		15 mm		
Adjustable force range		0 to 2.5g/1 turn of the scale ring		
A		(directly readable in 0.5g steps)		
Acceptable cartridge weight Cartridge (Model G)		4 to 12g		
Frequency response		VC-10 Dual Magnet type		
Output voltage	·	20 - 20,000 Hz 2.5 mV at 1 kHz 3.54 cm/sec.	1.8 - 3.5 mV at TRS-1004	
Od that voitage		2.5 mV at 1 km2 3.54 cm/sec.	record	
Channel difference		2 dB at 1 kHz	record	
Channel separation		20 dB at 1 kHz	16 dB at 1 kHz at TTR-102	
•			record	
Tracking force		2 grams		
Stylus tip		0.6 mil diamond stylus		
Power source	Model A and C	117 Volts, AC 60 Hz		
	Model E	117/220 Volts switchable, 50/60 Hz		
Do an at	Model G	117/220 Volts switchable,50/60 Hz		
Power consumption Dimension	1	3.5 watts		
		156(H) × 457(W) × 350(D) mm		
Weight		10 kg (Net)		

D 1

DISASSEMBLY INSTRUCTIONS

1. TOOLS REQUIRED FOR DISASSEMBLY

Phillips-head screwdrivers (for M5 and M3)
Slotted-head screwdrivers (medium and small sizes)

Radio pliers

Hexagon-head wrench (for hexagon socket headless set screw M4)

Nippers

Hexagon box type screwdrivers (for M5 and M3)

2. DO THE FOLLOWING PRIOR TO DISASSEMBLY:

- (1) Remove the dust cover.
- (2) Remove the turntable platter.
- (3) Fix the tone arm in place with the lock-lever of the arm rest.
- (4) Place the set on a suitable bench with the bottom base upward. (Fig. 1)

3. REMOVE THE MOTOR

- (1) Remove with a Phillips-head screwdriver the eight screws which hold the bottom base (Fig. 1).

 NOTE: One of the eight screws is placed behind the audio-insulated leg A as shown in Fig. 1.
- (2) Remove the return plate (1) and return arm (8).
- (3) Disconnect with a nipper the lead wires of servo controller circuit board except for one from motor.
- (4) Remove the servo controller circuit board from the P.C.B. mounting spacer ③.
- (5) Disconnect with a nipper the grounding wire of motor (Fig. 2).
- (6) Place the set on a suitable bench with the surface of chassis upward.
- (7) Remove the drive gear 5.
- (8) Remove the three screws A which fasten the motor. (Fig. 3) Then the motor can be removed.

4. REMOVE THE TONE ARM

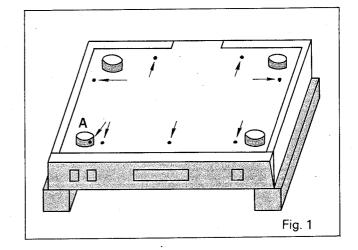
- (1) Remove the return plate. 10
- (2) Remove the shield case 39, disconnect from the shield connector plate the lead wires coming from the tone arm and remove the wirings.
- (4) Remove the tone arm mounting nut (5)
- (5) Place the set on a suitable bench with the surface of chassis upward.
- (6) Remove the three screws B described in Fig. 3.

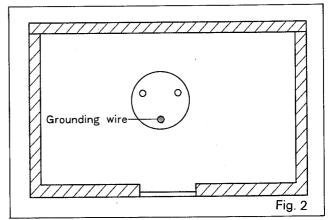
5. REMOVE THE VARIABLE RESISTOR

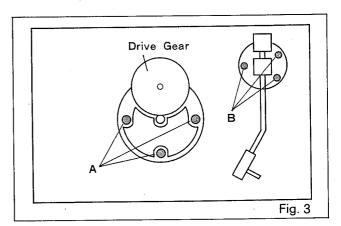
- (1) Remove the front panel ③ from the cabinet.
- (2) Tear the pitch control nameplate 33 down from the front panel and remove the two screws 10 which fasten the variable resistor.

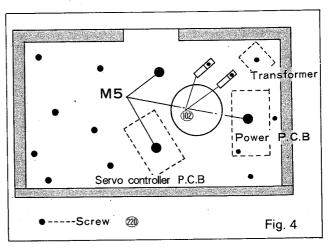
6. REMOVE THE SUB-CHASSIS

- (1) Remove the tone arm.
- (2) Remove the three M5 screws and the thirteen screws which mount the sub-chassis to the









cabinet (Fig. 4).

(3) Remove the terminal plate 98.

ADJUSTMENTS

1. TOOLS REQUIRED FOR ADJUSTMENTS

Small level indicator Hexagon box type screwdriver Phillips-head screwdriver (M3) Slotted-head screwdrivers (smaller size)

Note: Be sure to set the bench for adjustment level and shut the power off.

2. STYLUS POINT HEIGHT

Place the set with the bottom base removed on a stable table, set the turntable platter, the platter mat and a record, and check the level of the turntable with a level indicator.

(1) Auto Up

Adjust the height from the record surface to the stylus point in the following order so that it conforms to the dimensions shown in Fig. 5 during auto return:

- (a) Set the stylus down at slightly outside position from the end sound groove of a record (65 – 70R from the turntable shaft).
- (b) Push the reject lever and slowly turn the turntable platter so that the tone arm starts auto return operation.
- (c) Stop the rotation of the turntable platter before the tone arm passing over the edge of a record and measure the gap between the stylus point and record surface.
- (d) If the gap is not within the dimensions specified in Fig. 5, turn the lifter shaft as shown in Fig. 6, and adjust the height referring to the below.

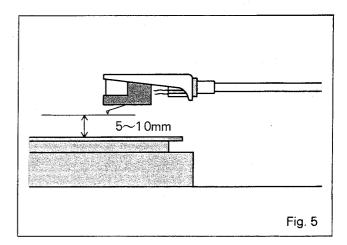
Less than 5 mm	Turn clockwise			
More than 10 mm	Turn counter-clockwise			

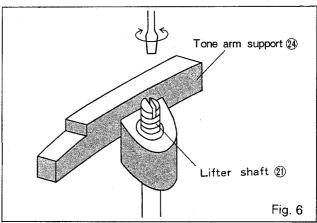
(2) Manual Up

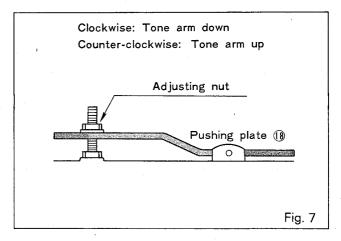
Adjust by turning the nut in Fig. 7 so that the gap between the stylus point and record surface becomes equal to that at the time of auto up when the cueing lever is set to the position.

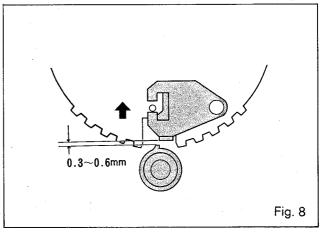
3. MOTOR MOUNTING POSITION

- (1) Loosen the screws A in Fig. 3 which hold the motor.
- (2) Push ratchets A and BL attached to the drive gear as far as possible in the direction of the arrow shown in Fig. 8.
- (3) Move the motor so that the gap between the turntable gear and ratchet A becomes as shown in Fig. 8. and tighten the screws.









4. AUTO RETURN MECHANISM

- (1) Make sure the tone arm fixing plate is properly installed as shown in Fig. 9.
- (2) Put on a record and set the stylus down slightly outside the end sound groove or 65 - 70R from the center of the turntable. When the record ends, make sure the tone arm automatically returns from any of the following positions:
 - (a) For LP records, a click is heard when the stylus is between 53 and 57.5 R and then the tone arm automatically returns.
 - (b) For EP records, a click is heard when the stylus is between 48.5 and 53 R and then the tone arm automatically returns.
 - (c) For the auto return test record (CEC RG-652), a click is heard when the stylus is between 55 and 61 R and then the tone arm automatically returns.
- (3) If the tone arm does not automatically return from all of the above positions, turn the adjusting hexagon bolt in Fig. 9 to adjust the tone arm return position.

 Clockwise turning of the screw brings the return position close to the center of the turntable and counterclockwise turning of the screw moves the return position away from the center of the turntable.

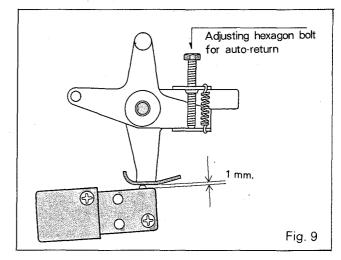
5. TURNTABLE SPEED

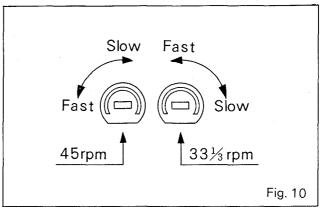
The rotating speeds of the turntable can be adjusted to minimum $\pm 2.8\%$ with the pitch control knob. If the specified adjusting range cannot be obtained, adjust as follows:

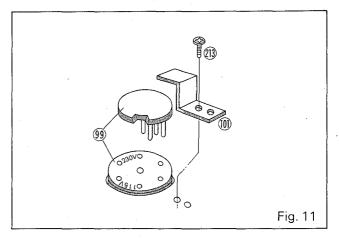
- (1) Place the pitch control knob at the center.
- (2) Remove the platter and put the speed adjusting label off from the cabinet.
- (3) Rotate from the two holes beneath the speed adjusting label the semi-fixed variable resistors. Check to see if the strobo indexes appear stationary after placing turntable platter (Fig. 10).

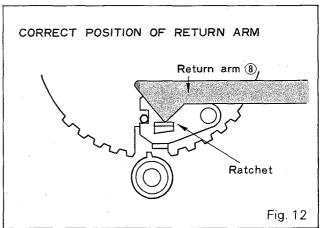
6. VOLTAGE CHANGEOVER (MODEL E AND G)

- (1) Voltage changeover mechanism is placed at the rear of the cabinet. Remove the screw which fastens the protector and remove the protector (Fig. 11).
- (2) Withdraw the plug and reinsert it in such a way that the desired voltage marking is exposed in the plug.
- (3) Fasten the protector with the screw.









TROUBLESHOOTING

1. The tone arm will not automatically return.

Remove the turntable platter and check to see that the return arm lies on the ratchet BL.

Yes: Place the return arm to the correct position as shown in Fig. 12.

No: Check to see the clearance between gear of motor shaft and ratchet is reasonable (Fig. 8).

Yes: Loosen three screws (Fig. 3) which fasten the motor shaft, and adjust.

Rotate adjusting hexagon bolt (Fig. 9) of tone arm fixing plate counter-clockwise.

2. The tone arm returns some seconds after the end of the performance.

Rotate adjusting hexagon bolt (Fig. 9) of tone arm fixing plate counter-clockwise.

3. The tone arm returns before the end of the performance.

Rotate adjusting hexagon bolt (Fig. 9) of tone arm fixing plate clockwise.

4. The turntable platter will not rotate even though the tone arm is above the record.

Check to see that the strobo light is ON. Yes: Motor defective. Check to see that 24±2V is Yes: Check to see that 18V is No: Check the fuses of secondary. available from the secondary available at DC output (+) in of the transformer. power printed circuit boord. Power printed circuit board 62 defective. Replace the fuse. Ok: Check the microswitch. No: Check to see that the power Yes: Check the fuse. No: Replace the fuse. plug is securely connected. No: Connect the plug. No: Check to see that proper voltage is available at the primary of the transformer. -No: Replace the microswitch. Yes: Transformer defective. No: Check the leads from the AC circuit board to the primary of the transformer.

5. The turntable platter will not stop rotating.

Check to see if the turntable will stop rotating when knob of microswitch is sufficiently pushed.

Yes: Adjust the clearance between the knob of microswitch and tip of tone arm fixing plate to 1 mm. (Fig. 9)
No: Check the wiring.
No: Replace wiring according to the circuit diagram.
Yes: Check the microswitch.
No: Microswitch defective.
Yes: Capacitor defective.

- 6. Adjustment of turntable speed cannot be made.
 - · Strobo indexes appear not to stand still.

Readjust semi-fixed variable resistors referring to TURNTABLE SPEED of ADJUSTMENTS,

· No speed adjustments with variable resistor knob.

Check the wirings including the motor servo controller circuit.

No: Replace wiring according to the wiring diagrams.

Yes: Check the variable resister.

No: Variable resister defective.

Yes: Check the push switch.

No: Push switch defective.

Yes: Motor defective.

7. No sound from the speaker.

Check to see that the output cords are securely connected to the amplifier (receiver).

No: Connect the cord.

Yes: Check to see that connections are made to the PHONO input terminals of the amplifier.

No: Connect to PHONO.

Yes: Check to see that the select switch of the amplifier is placed to PHONO.

Yes: Remove the headshell, touch the upper two pins at the end of the arm with a metal screwdriver and listen for the speaker to produce a humming noise. (Fig. 13)

No: Perform continuity test between the arm and output cords.

Yes: Check the connections between the cartridge and headshell.

No: Make correct connections.

Yes: Cartridge defective.

8. The tone arm will not go down even with the cueing lever in ▼ position.

Check to see that the lifter shaft ② moves down when the cueing lever ③ is pushed down.

No: Replace lifter shaft assy or tone arm.

-Yes: Loosen the screw of lifter shaft and adjust the clearance between stylus point and record surface to 5-10 mm when the cueing

lever is in ▼ position, referring to STYLUS POINT HEIGHT of ADJUSTMENTS.

9. The turntable is rotating but the strobo light will not light.

Check the 12 $k\Omega$ resistor which is connected with neon lamp in series.

Yes: Neon lamp is defective. Replace 12 $k\Omega$ resistor.

PARTS REPLACEMENT

1. TONE ARM

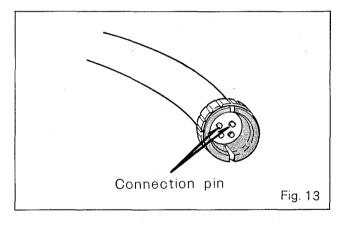
Remove the tone arm referring to DISASSEMBLY INSTRUCTIONS, 4 step(1) to (6) and replace. To reassemble, use DISASSEMBLY INSTRUCTIONS in reverse. Adjust the tone arm referring to ADJUSTMENTS, 2 and 4.

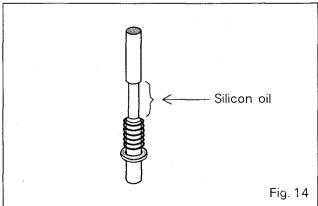
2. MOTOR

Remove the motor as shown in DISASSEMBLY INSTRUCTIONS, 3. Replace the new motor and fasten it by screws. After replacement, check the position of motor referring to ADJUSTMENT 3.

3. LIFTER SHAFT

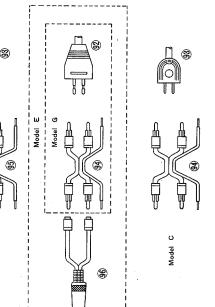
Remove the tone arm in accordance with DISASSEMBLY INSTRUCTIONS 4. Turn the lifter shaft clockwise as far as possible and the tone arm support can be removed, and pull out the lifter shaft from the tone arm in the direction of upward. Replace new lifter shaft after adhering 10⁵ CS silicon oil (Fig. 14). After finishing reassembling, be sure to check the gap between stylus point and record surface referring to ADJUSTMENTS, 2.





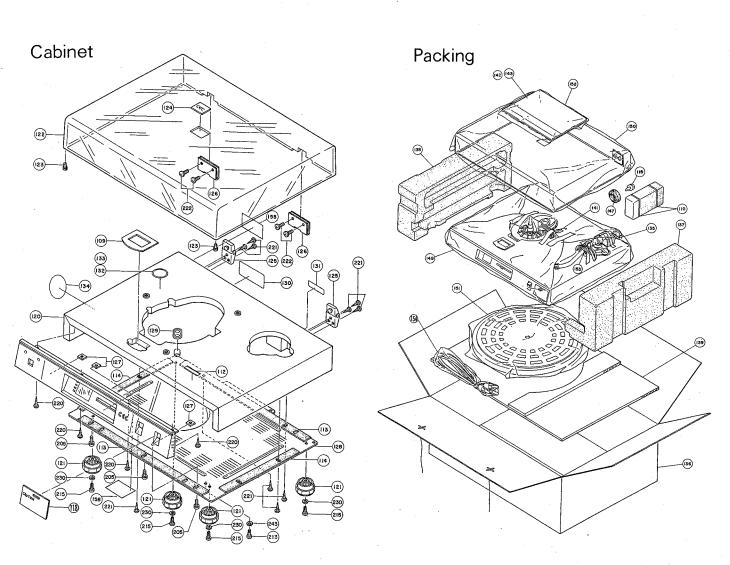
PARTS LIST

3	CA 44708 CA 44708 CB 44709 CB 41801 CD 20528 CB 44590 CB 41809 CD 44707 CA 45010 C 20519s C 20444s CB 44697 CB 44697 CB 44697 CB 44697 CB 44697 CB 44681 CD 30502 CD 44457 CD 44801s CD 44680-1 CD 44680-1 CD 44680-1 CD 44680-1 CD 44681 CD 44682 CD 44682 CD 44682 CD 44681 CD 44682 CD 44681 CD 44682 CD	Sub-chassis assy. Ratchet A Ratchet BL Ratchet collar Drive gear Drive gear Drive gear shaft Return arm Guide plate Return plate assy. Return plate assy. Return plate assy. Return plate support Lever shaft Cueing lever Cueing lever Cueing lever Cushing spering Turntable platter Cushing stopper Pushing plate Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support Tone arm support Tone arm support Redon hood assy. Switch angle Speed-change button Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A. C. E. G. A. C. G. A. C. A. C. A. C. A. C. G.	79 80 81 82 83 84 85 86 87 88 88 89 90 91 92 93 94 95 96 97 98 98 99 100 101 102 103 104 107 107 108 109 110 111 111 112 113	CF 44991 CH 43369 CH 43966 CH 43860 CH 43547 CF 30491 CF 30490 CF 30218 CF 30266 CF 30218 CF 44803 CF 30527 CF 43965-5 CF 30332 CF 42920 CF 44807 CF 44809 CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44897 CD 41833 CA 44982 CA 44923 CD 44645 CH 44669	Fuse 200 mA Fuse label Fuse label Fuse label Fuse label Fuse label Transistor Insulation sheet Lamp printed circuit board assy. P. C. B. mounting spacer Microswitch Microswitch Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord Olly/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 k \(\) \(\) \(\) \(\) w Plastic tie Switch cover Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label Stylus change label	A.C. E.A.C.A.E. A.E.E.A.C.C. A.G. C.A.C.C. A.G.
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5 6 6 7 8 9 10 0 C C C C C C C C C C C C C C C C C	CD 20528 CD 20528 CD 44590 CD 44707 CA 45010 CD 20519s CD 20444s CD 20526 CD 44697 CD 44687 CD 44680 CD 44680 CD 44682 CD 44682 CD 44682 CD 44682 CD 44689 CC 20576s CD 44699 CK 44685 CK 44706 CK	Drive gear Drive gear shaft Return arm shaft Return arm Guide plate Return plate assy. Return plate assy. Return plate spring Return plate support Lever shaft Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Pitch rame Front panel Hlumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A. E. C. G. A. E. C. A. E. C. A. C. A. C.	83 84 85 86 87 88 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 107 107 107 108 109 110 110 110 110 110 110 110 110 110	CH 43547 CF 30401 CF 44975 CF 44804 CF 30490 CF 30218 CF 44803 CF 30527 CF 43965-5 CF 30332 CF 42920 CF 44807 CF 44894 CF 44809 CF 44694 CA 44715 CA 44689 CD 43533 CD 43768 CD 43768 CD 43768 CD 44421 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44982 CA 44982 CA 44982 CA 44982 CA 44982 CA 44983 CD 45051 CH 44645	Fuse label Transistor Insulation sheet Lamp printed circuit board assy. P. C. B. mounting spacer Microswitch Microswitch Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	A. C. A. C. E. A. C. E. A. C. A. E. C. A.
7 8 9 10 C C C C C C C C C C C C C C C C C C	CB 44590 CB 41809 CB 41809 CB 41809 CB 41807 CA 45010 CD 24510 CD 24618 CD 24648 CD 30498 CD 30498 CD 20525 CD 244457 CA 30496 CD 20525 CD 24457 CA 30496 CD 20525 CD 24467 CD 205768 CD 24682 C	Drive gear shaft Return arm shaft Return arm Guide plate Return plate assy. Return plate assy. Return plate ssry. Return plate spring Return plate support Lever shaft Cueing lever Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing stopper Pushing plate Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Pitch rame Front panel Hlumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A. E. C. G. A. E. C. A. E. C. A. C. A. C.	84 85 86 87 88 88 89 90 91 92 93 94 95 96 97 98 98 99 100 101 102 103 104 105 107 107 107 108 109 110	CF 30401 CF 44975 CF 44804 CF 30490 CF 30266 CF 30218 CF 44803 CF 30527 CF 43965-5 CF 30332 CF 42920 CF 44807 CF 44809 CF 44809 CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 43421 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CA 44923 CA 44923 CA 44923 CD 45051 CH 44645	Transistor Insulation sheet Lamp printed circuit board assy. P. C. B. mounting spacer Microswitch Microswitch Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord OIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1kΩ, ¼w Plastic tie Switch cover Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	A. E. G. G. C. A. E. C. A. C. C. A.
7 8 9 10 C C C C C C C C C C C C C C C C C C	CB 41809 CD 44707 CA 45010 C 20519s CD 20444s CE 41827 CB 44697 CB 44697 CB 44697 CB 44697 CB 44680-1 CD 30498-1 CD 30498-1 CD 30498-1 CD 30498 CE 44830 CD 30496 CD 30496 CD 44657 CA 30496 CD 44679 CD 44679 CD 44680-1 CD 44680-1 CD 44680-1 CD 44680-1 CD 44680-1 CD 44682-1 CD 44682-1 CD 44682-1 CD 44682-1 CD 44681-1 CD	Return arm shaft Return arm Guide plate Return plate assy. Return plate assy. Return plate assy. Return plate support Lever shaft Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel	A. E. C. G. A. E. C. A. E. C. A. C. A. C.	85 86 87 88 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CF 44975 CF 44804 CF 30490 CF 30266 CF 30218 CF 43965-5 CF 30332 CF 42920 CF 44807 CF 44894 CF 44809 CF 44689 CF 44553 CD 43768 CD 43768 CD 43768 CD 43667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CH 44645	Insulation sheet Lamp printed circuit board assy. P. C. B. mounting spacer Microswitch Microswitch Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord OIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1k\(\Omega\), \('\w)w\) Plastic tie Switch cover Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	C. E. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C.
8 9 10 C C C C C C C C C C C C C C C C C C	CD 44707 CA 45010 CD 20519s CD 20519s CD 20444s CD 44697 CB 44697 CB 44697 CB 44697 CB 44697 CD 30498-1 CD 30498-1 CD 30498-1 CD 30498 CD 20525 CD 44457 CA 30496 CB 43918 CB 44830 CD 20525 CD 44679 CD 44682 CD 44680-1 CD 44680-1 CD 44681 CD 44680-1 CD 44680-1 CD 44681 CD 44682 CD 44682-1 CD 44682 CD 44681 CD 44682 CD 44682 CD 44682 CD 44682 CD 44681 CD 44682 CD	Return arm Guide plate Return plate assy. Return plate assy. Return plate assy. Return plate spring Return plate support Lever shaft Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Fiber frame Front panel Humination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A. E. C. G. A. E. C. A. E. C. A. C. A. C.	86 87 88 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 107 107 107 108 109 110	CF 44804 CF 30490 CF 30266 CF 30218 CF 44803 CF 30527 CF 43965-5 CF 30332 CF 42920 CF 44807 CF 44894 CF 44809 CF 44694 CA 44715 CA 44689 CD 43533 CD 43768 CD 43421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44982 CA 44982 CA 44982 CA 44965 CH 44645	Lamp printed circuit board assy. P. C. B. mounting spacer Microswitch Microswitch Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate B. Voltage changeover mechanism AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	C. E. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C.
100 C C C C C C C C C C C C C C C C C C	20519s 20444s CE 41827 CB 44697 CB 44697 CB 44697 CB 44697 CB 44691 CD 30498 CE 44830 CD 30498 CE 44830 CD 30496 CD 30496 CD 44657 CA 30496 CD 44679 CB 44679 CB 44680-1 CD 44680-1 CD 44680-1 CD 44680-1 CD 44682-1 CD 44682-1 CD 44682-1 CD 44681 CD	Return plate assy. Return plate assy. Return plate sasy. Return plate ssyring Return plate support Lever shaft Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel	A. E. C. G. A. E. C. A. E. C. A. C. A. C.	87 88 88 89 90 91 92 93 94 95 96 97 98 98 99 100 101 102 103 104 105 107 107 107 108 109 110	CF 30490 CF 30266 CF 30218 CF 44803 CF 30527 CF 43965-5 CF 30332 CF 42920 CF 44807 CF 44809 CF 44894 CF 44689 CF 44553 CD 43768 CD 43768 CD 44421 CA 44715 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CA 44923 CA 44923 CD 45051 CH 44645	P. C. B. mounting spacer Microswitch Microswitch Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ¼w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	C. E. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C.
10 C C C C C C C C C	20444s 21827 28 44697 28 44697 28 44691 20 30498 20 20525 20 44457 20 44457 20 44457 20 44679 20 44027-1 20 44681 20 44680 20 44682 20 44683 20 44683 20 44687 20 44687 20 30501 20 44687 20 30501 20 44687	Return plate assy. Return plate spring Return plate support Lever shaft Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Humination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A. E. C. G. A. E. C. A. E. C. A. C. A. C.	88 88 99 90 91 92 93 94 95 96 97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CF 30266 CF 30218 CF 44803 CF 43965-5 CF 30332 CF 42920 CF 44894 CF 44899 CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 43768 CD 43667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CA 44923 CA 44923 CA 44923 CA 44923 CA 44923 CA 44965	Microswitch Microswitch Microswitch Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	C. E. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C.
111 CI	DE 41827 CB 44697 B 44691 CD 30498-1 CD 30498 CD 20525 CD 44457 CA 30496 CB 43917 CB 4467 CB 44680 CD 446	Return plate spring Return plate support Lever shaft Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel	A. E. C. G. A. E. C. A. E. C. A. C. A. C.	88 89 90 91 92 93 94 95 96 97 98 99 100 100 101 102 103 104 105 107 107 107 108 109 110	CF 30218 CF 44803 CF 30527 CF 43965-5 CF 30332 CF 44807 CF 44894 CF 44809 CF 44694 CA 44715 CA 44689 CA 44715 CA 44686 CD 43768 CD 43768 CD 43768 CD 43768 CD 43800 CD 43890 CD 44297 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CA 44982 CA 44965 CH 44645	Push switch Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ¼w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	C. E. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C. C. C. C. A. C. C. C. A. C.
12 CI	CB 44697 CB 44691 CB 44691 CB 30498-1 CD 30498-1 CD 30498-1 CD 20525 CD 44457 CA 30496 CB 43918 CB 43917 CB 44679 CB 44687 CD 44680-1 CD 44680-1 CD 44680-1 CD 44682-1 CD 44683-1 CD 44683-1 CD 44685-1 CD 44685-1 CD 44685-1 CD 44685-1 CD 44687 CD 41875 CD 41872 CD 41875 CD 41875 CD 41872 CD 41875 CD 41872 CD 41872 CD 41875 CD 41875 CD 41872 CD 41875 CD 41872 CD 41875 CD 41875 CD 41872 CD 41875 CD 41872 CD 41875 CD 41872	Return plate support Lever shaft Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel	C. G. A. E. G. A. C. A. C. A. C.	90 91 92 93 94 95 96 97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CF 30527 CF 43965-5 CF 30332 CF 42920 CF 44897 CF 44899 CF 44689 CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CA 44923 CA 44923 CD 45051 CH 44645	Variable resistor Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	A. C. C. C. A. E. C.
131 CI CI CI CI CI CI CI C	CB 44691 CD 30498-1 CD 30498-1 CD 30498 CE 44830 CD 20525 CD 44457 CA 30496 CB 43918 CE 43917 CB 44679 CE 41533 CA 43846 CD 30502 CD 44027-1 CD 44680-1 CD 44680-1 CD 44680-1 CD 44682-1 CD 44683-1 CD 44683-1 CD 44683-1 CD 44685-1 CD 44687-1 CD	Lever shaft Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Front panel Front panel Humination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. E. G. A. C. A. C. A. C.	91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 107 107 107 108 109 110	CF 43965-5 CF 30332 CF 42920 CF 44807 CF 44894 CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 43768 CD 43266 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44982 CA 44982 CA 44982 CA 44645	Neon lamp AC power supply cord AC power supply cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	A. C. C. C. A. E. C.
14	CD 30498-1 CD 30498 CD 30498 CE 44830 CD 20525 CD 44457 CB 44679 CD 44680 C	Cueing lever Cueing lever Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Front panel Front panel Hlumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. E. G. A. C. A. C. A. C.	92 93 94 95 96 97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CF 30332 CF 42920 CF 44807 CF 44894 CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44982 CA 44982 CA 44965 CH 44645	AC power supply cord AC power supply cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	A. C. C. C. A. E. C.
144 CI	2D 30498 CE 44830 CE 44830 CD 20525 CD 44457 CA 30496 CB 43918 CB 43917 CB 44679 CB 41533 CA 43846 CD 30502 CD 44027-1 CA 44680-1 CD 44680-1 CD 44680-1 CD 44682-1 CD 20576s-1 CD 20576s-1 CD 20576s-1 CD 20576s-1 CD 20576s-1 CD 20576s-1 CD 30501 CA 44687 CD 41875 CR 43201	Cueing lever Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel	C. G. A. E. G. A. C. A. C. A. C.	93 94 95 96 97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CF 42920 CF 44807 CF 44894 CF 44899 CF 44689 CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 44833 CA 44982 CA 44982 CA 44983 CD 44645	AC power supply cord Output shielded cord Output shielded cord OIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ¼w Plastic tie Switch cover Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	A. C. C. C. A. E. C.
15 CI	CE 44830 CD 20525 CD 44457 CA 30496 CB 43918 CE 43917 CB 44679 CE 41533 CA 43846 CD 30502 CD 44027-1 CA 44081 CD 44680-1 44680-1 44681 CD 44682-1 CD 44682-1 CD 44682-1 CD 44682-1 CD 44685-1 CD 44687 CD 30501 CA 44687 CD 30501 CA 44687 CD 41875	Lever spring Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Front panel Front panel Humination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A. E. C. G. A. G. C. A. C.	94 95 96 97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110 111	CF 44807 CF 44994 CF 44809 CF 44694 CA 44715 CA 44589 CF 43533 CD 43768 CD 43768 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44982 CA 44982 CA 44983 CD 45051 CH 44645	Output shielded cord Output shielded cord Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor $1 k\Omega$, $\frac{1}{2}$ w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	C. A. C. E. G. C. G. E. C. A. C. E. C. A. C. C. E. C. A. C. C. A. C. C. A.
16 CI	CD 20525 CD 44457 CB 44679 CB 44679 CB 44680 CD	Turntable platter Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Front panel Front panel Humination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	95 96 97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110 111	CF 44994 CF 44809 CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44982 CA 44982 CA 449651 CH 44645	Output shielded cord DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	A. E. C. G. G. G. G. C. A. C. C. A.
171 C.	CD 44457 CA 30496 CB 43918 CE 43917 CB 44679 CE 41533 CA 43846 CD 30502 CD 44027-1 CD 44680 CD 44680 CD 44680 CD 44682-1 CD 44680 CD 20576s-1 CD 44687 CD 44687 CD 41875	Cushion stopper Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Pitch control knob Fiber frame Front panel	C. G. A. G. C. A C	96 97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CF 44809 CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44923 CA 44923 CA 44923 CD 45051 CH 44645	DIN/RCA adapter Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1kΩ, ¼w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	E. C. C. C. C. C. A. C. C. A.
18	CA 30496 CA 30496 CA 43918 CA 43917 CB 44679 CB 44679 CB 44680-1 CA 44801s CA 44881 CD 44680-1 CD 44682-1 CD 44682-1 CD 44682 CD 44682-1 CD 44682-1 CD 44685-1 CD 44685-1 CD 44685-1 CD 44685-1 CD 44685-1 CD 44687 CD 30501 CA 44687 CD 41875 CD 41875 CD 41875 CD 43910 CD 44687 CD 44687 CD 30501 CA 44687 CD 41875 CD 41875 CD 41875 CD 43201	Pushing plate Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Pitch control knob Fiber frame Front panel	C. G. A. G. C. A C	97 98 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CF 44694 CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Shield connector plate Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1kΩ, ¼w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	A. C. E. G. A. E. C. E. C. A. C. A.
19	CB 43918 CE 43917 CB 44679 CE 41533 CA 43846 CD 44680-1 CD 44680-1 CD 44680-1 CD 44682-1 CD 44682-1 CD 44682-1 CD 44680-1	Pushing plate pin Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel	C. G. A. G. C. A C	98 98 99 100 101 102 103 104 105 106 107 107 108 109 110	CA 44715 CA 44689 CF 43533 CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CA 449645 CH 44645	Terminal plate A. Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	E. G.
201 CE 221 CE 222 CE 222 CE 223 C./ 226 CE 227 CE 228 CE 228 CE 228 CE 228 CE 233 CE 2	CE 43917 CE 43917 CE 44679 CE 41533 CA 43846 CD 30502 CD 44027-1 CD 44680 CD 44680 CD 44682-1 CD 44682 CD 44682 CD 44682 CD 20576s-2 CD 20576s-1 CD 20576s-1 CD 44685-1 CD 44685-1 CD 44687 CD 44687 CD 41875 CD 41875 CD 43201	Pushing spring Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Humination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	98 99 100 100 101 102 103 104 105 106 107 107 108 109 110	CA 44689 CF 43533 CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Terminal plate B. Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1κΩ, ¼w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	E. G.
21 CE222 CA223 CA224 CE223 CA224 CE225 CE227 CA228 CE229 CE229 CE331 CA2228 CE229 CE331 CA2228 CA2228 CA2229 CE3331 CA22228 CA	CB 44679 CB 41533 CA 43846 CD 30502 CD 44027-1 CA 44801s CA 44681 CD 44680-1 CD 44682-1 CD 44682-1 CD 20576s-1 CD 20576s-1 CD 44685-1 CD 44685-1 CD 44687 CD 30501 CA 44687 CD 41875 CD 41875 CR 43201	Lifter shaft Spring Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel	C. G. A. G. C. A C	99 100 100 101 102 103 104 105 106 107 107 108 109 110	CF 43533 CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Voltage changeover mechanism AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1k\Omega, \(\lambda \) w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	E. G. A. C. E. G. C. A. E. C. C. E. C
223	CA 43846 CD 30502 CD 44027-1 C 44801s CA 44681 CD 44680-1 CD 44680 CD 44682-1 CD 44682 CD 20576s-2 CD 20576s-1 CD 20576s-1 CD 20576s-1 CD 44680 CD 30576s-2 CD 20576s-1	Spring Spring mounting Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	100 100 101 102 103 104 105 106 107 107 108 109 110	CD 43768 CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	AC cord bushing AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	E. G. E. G. C. E. C C. E. C
234 CA CC CA	CD 30502 CD 44027-1 CD 446801 CD 44680-1 CD 44680-1 CD 44682-1 CD 44682-1 CD 20576s-2 CD 20576s-1 CD 20576s-1 CD 20576s-1 CD 44699 CK 44706 CD 30501 CK 44687 CD 44687 CD 41875 CR 43201	Spring mounting Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	100 101 102 103 104 105 106 107 107 108 109 110	CD 44421 CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	AC cord bushing Protector Metalic cord clamping Motor assy. Motor cover Resistor 1 kΩ, ¼w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	E. G. E. G. C. E. C C. E. C
24 CD	CD 44027-1 44801s CA 44681 CD 44680-1 CD 44682 CD 44682-1 CD 44682 CD 20576s-2 C 20576s-1 C 20576s CD 44699 CK 44706 CD 30501 CA 44687 CR 44787 CR 4375 CR 43201	Tone arm support Tone arm support Tone arm support rubber Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Pitch rame Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	101 102 103 104 105 106 107 107 108 109 110 111	CA 43966 CA 42667 CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Protector Metalic cord clamping Motor assy. Motor cover Resistor $1k\Omega$, $\frac{1}{4}w$ Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	C. E. C. A. C. E. C. E. C
26 C C C C C C C C C C C C C C C C C C C	2 44801s 2A 44681 2D 44680-1 2D 44680-1 2D 44682-1 2D 44682-1 2D 44682-1 2D 20576s-2 2D 20576s-1 2D 20576s-1 2D 44699 2K 44685-1 2K 44706 2D 30501 2A 44687 2D 41875 2D 41875 2D 41875 2D 43201	Neon hood assy. Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	103 104 105 106 107 107 108 109 110 111	CF 20554 CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Motor assy. Motor cover Resistor $1 k\Omega$, $\frac{1}{4}w$ Plastic tie Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	A. C. E. C C. E. C
27 C/28 CC/228 CC/229 CC/2330 CC/331 CC/331 CC/332 CC/333 CC/333 CC/333 CC/333 CC/338 CC/338 CC/44 CC/444 C	CA 44681 CD 44680-1 CD 44680 CD 44682-1 CD 44682 CH 44974 CD 20576s-2 CD 20576s-1 CD 20576s-1 CD 44699 CK 44685-1 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Switch angle Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	104 105 106 107 107 108 109 110 111	CD 30500 CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Motor cover Resistor 1 kΩ, ½w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	A. C. E. C C. E. C
28	CD 44680-1 CD 44681 CD 44682-1 CD 44682 CH 44974 CD 20576s-2 C 20576s-1 C 20576s-1 CD 44699 CK 44685-1 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Speed-change button Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	105 106 107 107 108 109 110 111	CD 43890 CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Resistor 1k\Omega, \%w Plastic tie Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	A. C. E. C C. E. C
229 CC C29 CC C330 CC C331 CC C331 CC C331 CC C333 CC C333 CC C333 CC C337 CC C337 CC C337 CC C444 CC C444 CC C444 CC C444 CC C447 CC CC C47 C7 C47 CC C4	CD 44680 CD 44682-1 CD 44682-1 CD 44682 CH 44974 CD 20576s-2 CD 20576s-1 CD 20576s CD 44699 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Speed-change button Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A. G. C. A C	106 107 107 108 109 110 111	CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Plastic tie Switch cover Switch cover Lamp mounting plate Frame B, Rubber ring Caution label	A. C. E. C C. E. C
29 CL CC	CD 44682-1 CD 44682 H 44974 CD 20576s-2 C 20576s-1 C 20576s CD 44699 CK 44706 CD 30501 CA 44687 CD 44875 CD 41875 CR 43201	Pitch control knob Pitch control knob Fiber frame Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A. E. C. G. A C E	107 107 108 109 110 111 112	CD 44297 CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Switch cover Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	A. C. E. C C. E. C
299 CH 201 CH 20	2D 44682 CH 44974 CD 20576s-2 CD 20576s-1 CD 20576s CD 44699 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Pitch control knob Fiber frame Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C. G. A C E	107 108 109 110 111 112	CD 41833 CA 44982 CA 44923 CD 45051 CH 44645	Switch cover Lamp mounting plate Frame B. Rubber ring Caution label	C. E. C C. E. C
30 CH 31 CH	CH 44974 CD 20576s-2 CD 20576s-1 CD 44699 CD 44695 CH 44685-1 CK 44685-1 CH 44687 CD 30501 CA 44687 CD 41875 CR 43201	Fiber frame Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	A C E	108 109 110 111 112	CA 44982 CA 44923 CD 45051 CH 44645	Lamp mounting plate Frame B. Rubber ring Caution label	C. E. (
311 C C 311 C C 311 C C C C	CD 20576s-2 C 20576s-1 C 20576s CD 44699 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Front panel Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C E	109 110 111 112	CA 44923 CD 45051 CH 44645	Frame B. Rubber ring Caution label	Α.
31 C 331 C 331 C 332 C 333 C 3	20576s-1 20576s CD 44699 CK 44685-1 CK 44706 CD 30501 CD 41875 CD 41875 CR 43201	Front panel Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	C E	110 111 112	CD 45051 CH 44645	Rubber ring Caution label	
31 C C 333 C C G 333 C C G 335 C C G 336 C C G 337 C G 337 C G 339 C G 440 C G 442 C G 443 C C G 444 C C G 445 C C 6446 C C 6447	20576s CD 44699 CK 44685-1 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Front panel Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	E	111 112	CH 44645	Caution label	
31 C C C C C C C C C C C C C C C C C C C	20576s CD 44699 CK 44685-1 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Front panel Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate		112			
32 CL333 CL3334 CL335 CL336 CA337 CL336 CA40 C CA41 CL442 CL443 C CA444 C CA47 C CA47 C CA47 C CA47 C CA333 CL333	CD 44699 CK 44685-1 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Illumination window Pitch control nameplate Masking cloth Frame Transformer mounting plate	g			יייים מווער ומטפו	
33 CH 334 CH 335 CH 336 CA 337 CH 338 CH 339 CA 441 CH 442 CH 443 CH 444 CH 445 CH 447 CH	CK 44685-1 CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Pitch control nameplate Masking cloth Frame Transformer mounting plate		1 113 1	CA 45036	Rumble absorbing rubber A	
34 CF ST	CK 44706 CD 30501 CA 44687 CD 41875 CR 43201	Masking cloth Frame Transformer mounting plate	ľ	114	CA 45037	Rumble absorbing rubber B.	
36 CA 37 CE 38 CF 39 CA 40 C 41 CF 42 CE 43 CE 44 CC 45 CA 46 CA 47 C	CD 30501 CA 44687 CD 41875 CR 43201	Frame Transformer mounting plate		115	C 45012	Adapter mounting	A.E.
36 CA 37 CE 38 CF 39 CA 40 C 41 CF 42 CE 43 CE 44 CC 45 CA 46 CA 47 C	CA 44687 CD 41875 CR 43201		1	116	CA 44416	Cartridge mounting spacer	_
37 CI 38 CF 39 CA 40 C 41 CF 42 CI 43 CI 44 C 45 C 46 CA 47 C	CR 43201			117	CD 43580-0	Stylus position gauge	Α.
39 CA 40 C C 41 CF 42 CC 43 CC 44 C C 45 C C 46 CA 47 C		Motor cushion rubber		118	CH 45073	Lever caution label	E.
40 C 41 CF 42 CF 43 CF 44 C 45 C 46 C 47 C		Motor stud		119	CH 44751 CM 20529	Stylus position gauge Cabinet	⊏.
41 CF 42 CF 43 CF 44 C 45 C 46 C/ 47 C	CA 44695	Shield case	ı	120 121	CW 20529 C 45124s-1	Audio-insulated leg	Α.
42 CE 43 CE 44 C 45 C 46 C 47 C		Tone arm fixing plate assy.		121	C 45124s	Audio-insulated leg	C, E. 0
43 CI 44 C 45 C 46 C/ 47 C		Tone arm fixing plate spring		122	CD 20446	Dust cover	0, 2.
44 C 45 C 46 C 47 C	D 43972	Reject spring Reject spring spacer	İ	123	CD 44205	Dust cover cushion	
45 C 46 C 47 C		Slide plate mounting plate assy.	1	124	CK 44884	Dust cover nameplate	A.E.
46 C/ 47 C		Slide plate assy.		124	CK 44143	Dust cover nameplate	C.G.
47 C	CA 45028	Latch-plate		125	CK 43202-1	Free-stop hinge	
		Reject lever assy.]]	126	CK 43203	Lock plate	
	CE 45035	Latch-plate spring		127	CA 44690	Plain nut	
49 CI	CE 45034	Joint spring		128	CA 20527	Bottom base	
	C 45049s	Lever mounting angle assy.		129	CH 44399-1	Speed adjusting label	_
	CF 30526-1	Tone arm assy.	Α	130	CK 44921	Rating label	Α.
	CF 30526	Tone arm assy.	C.E.	130	CK 45007	Rating label	C. E.
51 C1	CF 30526-2	Tone arm assy. Counterweight	G.	130	CK 44812	Rating label	
51-1	. 1		ļ l	130 131	CH 44808 CH 44312	Rating label Serial number label	G.
51-2 51-3		Subweight Lateralweight		132	CH 44910	Voltage label (240V)	G.
51-3 51-4	1	Lateralweight Headshell	1	133	CH 44911	Voltage label (120V)	Ğ.
51-4		Tone arm	j i	134	CH 44997	Cabinet label	Ä.
	CF 44802	Cartridge VC-10	G.	135	CH 44222	Tone arm packing cushion	
53		Cartridge mounting hardwares	A. C. E.	136	CH 44758-2	Carton box	A.
54 CI	CB 43212-1	Cartridge mounting screw	A, C, E.	136	011 4477	Carton box	C. E.
55 CI	CB 43212-3	Cartridge mounting screw	A.C.E.	136	CH 44758-1	Carton box	Ę.
56 CI	CB 43212-4	Cartridge mounting screw	A, C. E.	136	CH 44758 CD 20540	Carton box	G.
57 CI	CB 43213	Cartridge mounting nut	1	137	CD 20540 CD 20541	Styrol packing right side Styrol packing left side	
	CD 43214	Cartridge mounting washer		138 139	CH 44759	Bottom carton plate	
	CB 43212-5	Cartridge mounting screw	G.	140	CD 20518	Turntable platter mat	Α
	CF 44074	Wirings	A, C.	140	CD 20455	Turntable platter mat	A. C. E. (
	CF 30559	Power transformer Power transformer	E.G.	141	CH 44885	Return arm support	
61 C	CF 30523 C 45004s	Power transformer Power printed circuit board assy.	E. G. A.	142	CH 45055	Guarantee card	Α.
62 C		Power printed circuit board assy.	ĉ:	143	CH 45065	Owner's manual	A.
62 C	C 44718s	Power printed circuit board assy.	Ĕ.G.	143		Owner's manual	C. E.
63 C	CF 42734	Condenser	E. G.	144	CD 30417	Parts box	
	CF 43838	Condenser	A.	145	CH 44216	Parts box cover	,
65 C	CF 43562	Condenser	c.	146	CK 44861-1	Oil tube	A.
	CF 44793	Electrolytic condenser	1 l	146	CK 44861	Oil tube	C. E. (
		(1000µF, 35V)	-	147	CD 43100	45 rpm adapter	
67 C	CF 44794	Electrolytic condenser	1 1	148	CD 44217	Screwdriver	
	1	(470μF, 35V)	, ,	149	CH 44220	Polyethylene bag	
68		Resistor 12 kΩ, 1w	'	150	CH 44221 CH 40112	Polyethylene bag Polyethylene bag	
69		Resistor 0.5Ω, 1w		151 152	CH 40112 CH 41211	Polyethylene bag	Ì
70		Resistor 82Ω , $4w$ Resistor 750Ω , $4w$		153	CH 43179	Polyethylene sheet	
71 72		Resistor 1.6kΩ, ¼w	1 1	154	CH 40115	Polyethylene bag	Į
73 C	1	Silicon bridge diode		155	CH 44315	WARNING label	A.
	CF 44795	Zener diode		156		Tone arm mounting nut	
	CF 44795 CF 44796	COURT DIOUS	, ,			Tone arm mounting washer	l
74 C	CF 44795 CF 44796 CD 43534	Spacer	1	157			j A
74 C 75 C 76 C	CF 44796		E. G. A. C.		CH 44314	CAUTION label	Α.



SCREWS WASHERS AND NUTS

Ref. No.	Description	Ref. No.	Des	cription
201	⊕ Pan head screw M3x18	223	Hexagon nut M3	
202	Hexagon head bolt M3 x 25	224	Hexagon nut with flan	ae M3
203	Pan head screw M4x6 Pan head screw M4x6	225	Plain washer (Bronze)	
204	Pan head Sems screw with spring washer M3x6	226	Plain washer	$3\phi \times 10\phi \times 1t$
205	Pan head Sems screw with spring washer M3x10	227	Plain washer	$3\phi \times 14\phi \times 1t$
206	Pan head Sems screw with spring washer M3x25	228	Plain washer	$4\phi \times 10\phi \times 1t$
207	⊕ Pan head Sems screw with spring washer M4x10	229	Plain washer (Bronze)	
208	Pan head Sems screw with toothed lock washer	230	Plain washer	$4\phi \times 12\phi \times 1t$
	M5x16	231	Plain washer	$4.7\phi \times 10\phi \times 0.3t$
209	⊕ Pan head with plain washer M4x20	232	Plain washer	$6\phi \times 16\phi \times 1t$
210	⊕ Countersunk head screw M3x8	233	Polyethylene washer	$4\phi \times 10\phi \times 1t$
211	Pan head tapping screw (Class 2) M3x5	234	Polyethylene washer	$5.2\phi \times 12\phi \times 1t$
212	Pan head tapping screw (Class 2) M3x6	235	Spring washer	3ϕ
213	Pan head tapping screw (Class 2) M3x8	236	E type washer	2ϕ
214	Pan head tapping screw (Class 2) M3x16	237	E type washer	3ϕ
215	⊕ Pan head tapping screw (Class 2) M3.5x10	238	E type washer	4ϕ
216	Pan head tapping screw with plain washer M3x5	239	Oval lug	3ϕ
217	Pan head tapping screw with plain washer M3x10	240	Oval lug	4ϕ
218	Hexagon socket headless set screw M4x5	241	Stop ring CSTW-2	•
219	Plastic screw M3x8	242	Stop ring CSTW-3	
220	Brazier head tapping screw (Class 1) M3x12	243	Toothed lock washer	3ϕ
221	Brazier head tapping screw (Class 1) (Bronze) M3x12	244	Toothed lock washer	4ϕ
222	Oval countersunk head screw M4x10		*	



Accessory Parts Silver
SPEED INDICATO

SERVO CONTROLLER CIRCUIT BOARD

